L Number	Hits	Search Text	DB	Time stamp
L RUIIDEI	11857	polyvinyl adj alcohol	USOCR	2003/01/31 08:19
;	9382	polarization	USOCR	2003/01/31 06:32
2			USOCR	2003/01/31 06:32
3	149819	film	USOCR	2003/01/31 06:32
4	33	dichroic adj ratio		
5	8203	melt same (extruded or extrusion or extruding)	USOCR	2003/01/31 06:33
6	10136	retardation	USOCR	2003/01/31 06:34
7	4825	(polyvinyl adj alcohol) same film	USOCR	2003/01/31 06:34
8	51	polarization same ((polyvinyl adj alcohol) same film)	USOCR	2003/01/31 06:34
9	0	(melt same (extruded or extrusion or extruding)) and	USOCR	2003/01/31 06:34
l'illi		(polarization same ((polyvinyl adj alcohol) same film))		
10	10	retardation and (polarization same ((polyvinyl adj alcohol)	USOCR	2003/01/31 06:35
10	10	1	dock	2003/01/31 00:33
		same film))	LICOCD	2007/01/71 06:75
11	73716	stretching or stretched	USOCR	2003/01/31 06:35
12	1004	(polyvinyl adj alcohol) and (stretching or stretched)	USOCR	2003/01/31 06:36
13	1695	polarizer	USOCR	2003/01/31 06:36
14	107	(polarization or polarizer) and ((polyvinyl adj alcohol) and	USOCR	2003/01/31 06:36
		(stretching or stretched))		
15	78	film and ((polarization or polarizer) and ((polyvinyl ad)	USOCR	2003/01/31 06:37
'	/ / /	alcohol) and (stretching or stretched)))	associ	
	٠,,		USOCR	2003/01/31 06:37
16	16	retardation and (film and ((polarization or polarizer) and	USOCK	2003/01/31 08:37
		((polyvinyl adj alcohol) and (stretching or stretched))))		
18	587151	water	USOCR	2003/01/31 06:37
19	9513	(polyvinyl adj alcohol) same water	USOCR	2003/01/31 06:37
20	5245	film and ((polyvinyl adj alcohol) same water)	USOCR	2003/01/31 06:38
21	113	(polarization or polarizer) and (film and ((polyvinyl adj	USOCR	2003/01/31 06:38
_ ·		alcohol) same water))		•
23	61	(stretching or stretched) and ((polarization or polarizer) and	USOCR	2003/01/31 06:39
23	"	(film and ((polyvinyl adj alcohol) same water)))	aso ok	
امدا	10		USOCR	2003/01/31 06:49
25	12	retardation and ((polarization or polarizer) and (film and	USOCK	2003/01/31 00:49
		((polyvinyl adj alcohol) same water)))	LICOCR	0007/01/71 07 01
26	25	polarization adj film	USOCR	2003/01/31 07:01
27	2	(polyvinyl adj alcohol) and (polarization adj film)	USOCR	2003/01/31 07:01
24	13	(dichroic adj ratio) and ((stretching or stretched) and	USOCR	2003/01/31 07:04
		((polarization or polarizer) and (film and ((polyvinyl ad)		
		alcohol) same water))))		
22	15	(dichroic adj ratio) and ((polarization or polarizer) and (film	USOCR	2003/01/31 07:10
		and ((polyvinyl adj alcohol) same water)))		
17	23	retardation and ((polarization or polarizer) and ((polyviny)	usocr	2003/01/31 08:19
17	23	adj alcohol) and (stretching or stretched)))	dock	2003/01/31 00:17
	_		USPAT:	2003/01/31 07:16
28	0	JP-2197638-\$.did. or JP-5337967-\$.did.	,	2003/01/31 07:18
			US-PGPUB;	
			EPO; JPO;	
]			DERWENT	
29	0	JP-2197638-\$.did. or JP-50337967-\$.did.	USPAT;	2003/01/31 07:16
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
30	o	JP-2197638-\$.did. or JP-00337967-\$.did.	USPAT;	2003/01/31 07:17
30			US-PGPUB:	2303/01/31 0/.1/
			,	
		,	EPO; JPO;	
			DERWENT	0007/01/71 57 57
31	2	JP-2197638-\$.did. or JP-05337967-\$.did.	USPAT;	2003/01/31 07:32
			US-PGPUB;	
			EPO; JPO;	
				i
			DERWENT	1
32	188168	casting or cast	DERWENT	2003/01/31 07:33
32 33	188168	casting or cast ((notyvinyl adi alcohol) same film) and (casting or cast)	DERWENT USOCR	2003/01/31 07:33
33	1218	((polyvinyl adj alcohol) same film) and (casting or cast)	DERWENT USOCR USOCR	2003/01/31 07:33
33 34	1218 848	((polyvinyl adj alcohol) same film) and (casting or cast) ((polyvinyl adj alcohol) same film) same (casting or cast)	DERWENT USOCR USOCR USOCR	2003/01/31 07:33 2003/01/31 07:33
33	1218	((polyvinyl adj alcohol) same film) and (casting or cast)	DERWENT USOCR USOCR	2003/01/31 07:33

36	98596	polyvinyl adj alcohol	USPAT;	2003/01/31 08:21
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
37	172845	glycerin or glycerol or glycerine	USPAT;	2003/01/31 08:21
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
38	2752619	water	USPAT;	2003/01/31 08:21
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
39	4722	(polyvinyl adj alcohol) same (glycerin or glycerol or	USPAT;	2003/01/31 08:22
		glycerine)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
40	40132	(polyvinyl adj alcohol) same water	USPAT;	2003/01/31 08:22
			US-PGPUB;	
			EPO; JPO;	
	ļ		DERWENT	
41	9122	(glycerin or glycerol or glycerine) and ((polyvinyl adj	USPAT;	2003/01/31 08:22
		alcohol) same water)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
42	139375	(glycerin or glycerol or glycerine) and water	USPAT;	2003/01/31 08:23
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
43	17185	(polyvinyl adj alcohol) and ((glycerin or glycerol or	USPAT;	2003/01/31 08:23
		glycerine) and water)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
44	371951	extruded or extrusion or extruding	USPAT;	2003/01/31 08:23
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
45	4041	((polyvinyl adj alcohol) and ((glycerin or glycerol or	USPAT;	2003/01/31 08:24
		glycerine) and water)) and (extruded or extrusion or	US-PGPUB;	
		extruding)	EPO; JPO;	
			DERWENT	
46	4885	retardation same (difference or value)	USPAT;	2003/01/31 08:24
			US-PGPUB;	
	Ì		EPO; JPO;	
	ļ		DERWENT	
47	6535	retardation same (difference or value or rate)	USPAT;	2003/01/31 08:25
			US-PGPUB;	
	l		EPO; JPO;	
			DERWENT	
48	15		USPAT;	2003/01/31 08:28
		glycerine) and water)) and (extruded or extrusion or	US-PGPUB;	
		extruding)) and (retardation same (difference or value or	EPO; JPO;	
		rate))	DERWENT	
49	281060	casting	USPAT;	2003/01/31 08:28
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
50	1803	, , , , , , , , , , , , , , , , , ,	USPAT;	2003/01/31 08:28
		glycerine) and water)) and casting	US-PGPUB;	
			EPO; JPO;	
			DERWENT	

51	- 8	(retardation same (difference or value or rate)) and	USPAT;	2003/01/31 08:30
31	•	(((polyvinyl adj alcohol) and ((glycerin or glycerol or	US-PGPUB;	2003/01/31 00:30
		glycerine) and water)) and casting)	EPO; JPO;	
		grycerine, and water, and casung,	DERWENT	
52	126678	polarization or polarizer or polarizing	USPAT;	2003/01/31 08:31
72	125576	polarization of polarizar of polarizaring	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
53	3630	(polyvinyl adj alcohol) and (polarization or polarizer or	USPAT;	2003/01/31 08:32
		polarizing)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
54	353	((glycerin or glycerol or glycerine) and water) and	USPAT;	2003/01/31 08:32
		((polyvinyl adj alcohol) and (polarization or polarizer or	US-PGPUB;	,
		polarizing))	EPO; JPO;	
			DERWENT	
55	74979	(glycerin or glycerol or glycerine) same water	USPAT;	2003/01/31 08:32
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
56	152		USPAT;	2003/01/31 08:33
		polarizing)) and ((glycerin or glycerol or glycerine) same	US-PGPUB;	
		water)	EPO; JPO;	
	74001		DERWENT	0007/01/71 00.76
57	34921	dimethylsulfoxide	USPAT; US-PGPUB;	2003/01/31 08:36
			EPO; JPO;	
	1		DERWENT	
58	14	(((polyvinyl adj alcohol) and (polarization or polarizer or	USPAT;	2003/01/31 08:39
30	'*	polarizing)) and ((glycerin or glycerol or glycerine) same	US-PGPUB;	2003/01/31 00:37
		water)) and dimethylsulfoxide	EPO; JPO;	
		, water, y and amen, is an order	DERWENT	
59	74250	(polyvinyl adj alcohol) and water	USPAT;	2003/01/31 08:40
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
60	3316	dimethylsulfoxide and ((polyvinyl adj alcohol) and water)	USPAT;	2003/01/31 08:40
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
61	21	(retardation same (difference or value or rate)) and	USPAT;	2003/01/31 08:41
		(dimethylsulfoxide and ((polyvinyl adj alcohol) and water))	US-PGPUB;	
			EPO; JPO; DERWENT	
62	2091	(polarization or polarizer or polarizing) and ((polyvinyl adj	USPAT;	2003/01/31 08:41
02	2091	alcohol) and water)	US-PGPUB;	2003/01/31 08:41
		alconory and water y	EPO; JPO;	
			DERWENT	
63	106864	LCD	USPAT;	2003/01/31 08:41
	100001		US-PGPUB;	
			EPO; JPO;	
			DERWENT	
64	265	((polarization or polarizer or polarizing) and ((polyviny) adj	USPAT;	2003/01/31 08:42
		alcohol) and water)) and LCD	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
65	216527	stretching or stretched	USPAT;	2003/01/31 08:42
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	

66	119	(((polarization or polarizer or polarizing) and ((polyvinyl adj	USPAT;	2003/01/31 08:42
		alcohol) and water)) and LCD) and (stretching or stretched)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
67	21629	dichroic	USPAT;	2003/01/31 08:42
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
68	60	((((polarization or polarizer or polarizing) and ((polyvinyl adj	USPAT;	2003/01/31 08:50
		alcohol) and water)) and LCD) and (stretching or stretched))	US-PGPUB;	
	ļ	and dichroic	EPO; JPO;	
			DERWENT	
69	36748	glycerine or glycerol or glycerin	USOCR	2003/01/31 08:51
70	2568	(polyvinyl adj alcohol) and (glycerine or glycerol or glycerin)	USOCR	2003/01/31 08:51
71	587151	water	USOCR	2003/01/31 08:51
72	2406	((polyvinyl adj alcohol) and (glycerine or glycerol or	USOCR	2003/01/31 08:51
		glycerin)) and water		
73	27129	(glycerine or glycerol or glycerin) same water	USOCR	2003/01/31 08:52
74	2081	(polyvinyl adj alcohol) and ((glycerine or glycerol or	USOCR	2003/01/31 08:52
		glycerin) same water)		
75	62271	extrusion or extruding or extruded	USOCR	2003/01/31 08:53
76	358	((polyvinyl adj alcohol) and ((glycerine or glycerol or	USOCR	2003/01/31 08:53
		glycerin) same water)) and (extrusion or extruding or		
		extruded)		
77	14362	polarizer or polarization or polarizing	USOCR	2003/01/31 08:53
78	4	(((polyvinyl adj alcohol) and ((glycerine or glycerol or	USOCR	2003/01/31 08:54
		glycerin) same water)) and (extrusion or extruding or		
		extruded)) and (polarizer or polarization or polarizing)		

L Number	Hits	Search Text	DB	Time stamp
1	11857	polyvinyl adj alcohol	USOCR	2003/01/31 06:31
2	9382	polarization	USOCR	2003/01/31 06:32
3	149819	film	USOCR	2003/01/31 06:32
4	33	dichroic adj ratio	USOCR	2003/01/31 06:32
5	8203	melt same (extruded or extrusion or extruding)	USOCR	2003/01/31 06:33
6	10136	retardation	USOCR	2003/01/31 06:34
7	4825	(polyvinyl adj alcohol) same film	USOCR	2003/01/31 06:34
8	51	polarization same ((polyvinyl adj alcohol) same film)	USOCR	2003/01/31 06:34
9	0	(melt same (extruded or extrusion or extruding)) and	USOCR	2003/01/31 06:34
		(polarization same ((polyvinyl adj alcohol) same film))		
10	10	retardation and (polarization same ((polyvinyl adj alcohol)	USOCR	2003/01/31 06:35
		same film))		
11	73716	stretching or stretched	USOCR	2003/01/31 06:35
12	1004	(polyvinyl adj alcohol) and (stretching or stretched)	USOCR	2003/01/31 06:36
13	1695	polarizer	USOCR	2003/01/31 06:36
14	107	(polarization or polarizer) and ((polyvinyl adj alcohol) and	USOCR	2003/01/31 06:36
		(stretching or stretched))		
15	78	film and ((polarization or polarizer) and ((polyvinyl adj	USOCR	2003/01/31 06:37
		alcohol) and (stretching or stretched)))		
16	16	retardation and (film and ((polarization or polarizer) and	USOCR	2003/01/31 06:37
		((polyvinyl adj alcohol) and (stretching or stretched))))		
17	23	retardation and ((polarization or polarizer) and ((polyvinyl	USOCR	2003/01/31 06:37
		adj alcohol) and (stretching or stretched)))		

L Number	Hits	Search Text	DB	Time stamp
1	11857	polyvinyl adj alcohol	USOCR	2003/01/31 06:31
2	9382	polarization	USOCR	2003/01/31 06:32
3	149819	film	USOCR	2003/01/31 06:32
4	33	dichroic adj ratio	USOCR	2003/01/31 06:32
5	8203	melt same (extruded or extrusion or extruding)	USOCR	2003/01/31 06:33
6	10136	retardation	USOCR	2003/01/31 06:34
7	4825	(polyvinyl adj alcohol) same film	USOCR	2003/01/31 06:34
8	51	polarization same ((polyvinyl adj alcohol) same film)	USOCR	2003/01/31 06:34
9	0	(melt same (extruded or extrusion or extruding)) and	USOCR	2003/01/31 06:34
		(polarization same ((polyvinyl adj alcohol) same film))		
10	10	retardation and (polarization same ((polyvinyl adj alcohol) same film))	USOCR	2003/01/31 06:35
11	73716	stretching or stretched	USOCR	2003/01/31 06:35
12	1004	(polyvinyl adj alcohol) and (stretching or stretched)	USOCR	2003/01/31 06:36
13	1695	polarizer	USOCR	2003/01/31 06:36
14	107	(polarization or polarizer) and ((polyvinyl adj alcohol) and (stretching or stretched))	USOCR	2003/01/31 06:36
15	78	film and ((polarization or polarizer) and ((polyvinyl adj alcohol) and (stretching or stretched)))	USOCR	2003/01/31 06:37
16	16	retardation and (film and ((polarization or polarizer) and ((polyvinyl adj alcohol) and (stretching or stretched))))	USOCR	2003/01/31 06:37
17	23	retardation and ((polarization or polarizer) and ((polyvinyl adj alcohol) and (stretching or stretched)))	USOCR	2003/01/31 06:37
18	587151	water	USOCR	2003/01/31 06:37
19	9513	(polyvinyl adj alcohol) same water	USOCR	2003/01/31 06:37
20	5245	film and ((polyvinyl adj alcohol) same water)	USOCR	2003/01/31 06:38
21	113	(polarization or polarizer) and (film and ((polyvinyl adj alcohol) same water))	USOCR	2003/01/31 06:38
22	15	(dichroic adj ratio) and ((polarization or polarizer) and (film and ((polyvinyl adj alcohol) same water)))	USOCR	2003/01/31 06:39
23	61	(stretching or stretched) and ((polarization or polarizer) and (film and ((polyvinyl adj alcohol) same water)))	USOCR	2003/01/31 06:39
24	13	(dichroic adj ratio) and ((stretching or stretched) and ((polarization or polarizer) and (film and ((polyvinyl adj alcohol) same water))))	USOCR	2003/01/31 06:39
25	12	retardation and ((polarization or polarizer) and (film and ((polyvinyl adj alcohol) same water)))	USOCR	2003/01/31 06:39

DERWENT-ACC-NO: 1994-031322

DERWENT-WEEK: 199404

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Prodn of polyvinyl alcohol film suitable for optical components

by film

casting process - comprising flowing and spreading aq PVA soln over

10

casting part to form liq film, drying and stripping film from casting part

PATENT-ASSIGNEE: KURARAY CO LTD[KURS]

PRIORITY-DATA: 1992JP-0179334 (June 11, 1992)

PATENT-FAMILY:

PUB-DATE LANGUAGE **PAGES** PUB-NO

MAIN-IPC

800 JP 05337967 A December 21, 1993 N/A

B29C 041/12

APPLICATION-DATA:

APPL-NO APPL-DESCRIPTOR PUB-NO

APPL-DATE

JP 05337967A N/A 1992JP-0179334 June

11, 1992

INT-CL (IPC): B29C041/12; B29K029:00; B29L007:00; C08J005/18; C08L029:04

ABSTRACTED-PUB-NO: JP 05337967A

BASIC-ABSTRACT: A process for the prodn. of polyvinyl alcohol (PVA)

film is

characterised by controlling its water content under 10 wt.% at a stripping

stage in a film casting process which comprises: (1) flowing and spreading an

aq. PVA soln. over a film casting part to form a liq. film, (2) drying the liq.

film and (3) stripping resulting dried film from the film casting part.

USE/ADVANTAGE - The prod. is suitable for optical components such as a polarising film, a phase contrast film, etc. because it has small local fluctuations of thickness and molecular orientation and a high max. drawing

magnification.

In an example, an aq. PVA soln. containing 100 pts.wt. of PVA prepd. by saponification of a polyvinyl ester, 12 pts.wt. of glycerine and 60 wt.% of

water (on wet base) is fed to the die of a belt-type machine for film

flowed and spread over the moving belt driven by two rollers and dried by

01/31/2003, EAST Version: 1.03.0002

heating up to 150 deg.C in a hot air stream for a period of 120 secs. and dried film is stripped with the roller. The dried film has a water content of 9.0 wt.%.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS:

PRODUCE POLYVINYL ALCOHOL FILM SUIT OPTICAL COMPONENT FILM CAST PROCESS COMPRISE FLOW SPREAD AQUEOUS PVA SOLUTION FILM CAST PART FORM LIQUID FILM DRY

STRIP FILM CAST PART

DERWENT-CLASS: A14 A32 A89

CPI-CODES: A10-E09B2; A11-B04C; A12-S06A;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0229 0780 2006 2007 2008 2179 2198 2371 2372 2386 2413

2441 2509

2513 2590 2654 2677 2851 3240

Multipunch Codes: 017 03- 066 231 244 245 359 387 388 395 398 402 408

409 428

431 435 516 519 528 529 53& 57- 575 596 649 687 688 722

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-014178